INTERNATIONALSEARCHREPORT

International application No.

| | | PCI/a | P2004/017439 | |
|---|---|--|--|--|
| A. CLA | SSIFICATIONOFSUBJECTMATTER | | | |
| Int.Cl ⁷ H01L29/78, H01L21/336, H01L21/316 | | | | |
| According to International Patent Classification (IPC) or to both national classification and IPC | | | | |
| B. FIELDS SEARCHED | | | | |
| | ocumentation searched (classification system followed by | | | |
| Int.Cl ⁷ H01L29/78, H01L21/336, H01L21/316 | | | | |
| | ion searched other than minimum documentation to the | | L. Control of the con | |
| Japanese Utility Model Gazette 1922-1996, Japanese Fublication of Unexamined Utility Model Applications 1971-2005, Japanese Registered Utility Model Gazette 1994-2005, Japanese Gazette Containing the Utility Model 1996-2005 | | | | |
| Electronic da | ata base consulted during the international search (name of | of data base and, where practicable, s | earch terms used) | |
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| C. DOCU | MENTS CONSIDERED TO BE RELEVANT | · · · · · · · · · · · · · · · · · · · | | |
| Category* | Citation of document, with indication, where a | ppropriate, of the relevant passages | Relevant to claim No. | |
| X | US 2003/0168707 A1 (MATSUSH INDUSTRIAL CO., LTD.) 2003 | .09.11, FIG.6A | 1,2,12-14 | |
| | &JP 2003-264285 A &EP 1347 | | | |
| . X | US 2002/0140043 A1 (KABUSHI 2002.10.03, a whole docum | | 1-4,12-14 | |
| | &JP 2002-299612 A | | | |
| x | KAISHA) 1997.06.20, a whole document | | 1-4,12-14 | |
| | (family:none) | • | | |
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| Further documents are listed in the continuation of Box C. See patent family annex. | | | | |
| "A" docum | | | | |
| "E" carlier | • | | | |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other | | | | |
| "O" document referring to an oral disclosure, use, exhibition or other | | | | |
| "P" document published prior to the international filing date but later "&" document member of the same patent family | | | | |
| Date of the actual completion of the international search Date of mailing of the international search report | | | | |
| | 18.02.2005 | 08. | 3. 2005 | |
| Name and mailing address of the ISA/JP | | Authorized officer | 4M 9836 | |
| Japan Patent Office | | Hidetada Matsushima | 4M 3030 | |
| 3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan | | Telephone No. +81-3-3581-11 | 101 Ext 3460 | |

INTERNATIONALSEARCHREPORT

International application No. PCT/JP 2004/017439

| Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) | | | |
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| This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: | | | |
| 1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: | | | |
| | | | |
| | | | |
| 2. Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: | | | |
| | | | |
| | | | |
| 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). | | | |
| Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet) | | | |
| This International Searching Authority found multiple inventions in this international application, as follows: (See an extra sheet) | | | |
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| 1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. | | | |
| 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. | | | |
| As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: | | | |
| claims 1-4,12-14 | | | |
| | | | |
| | | | |
| 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: | | | |
| Remark on Protest | | | |
| No protest accompanied the payment of additional search fees. | | | |

INTERNATIONAL SEARCH REPORT

International application No. PCT/JP 2004/017439

The feature common to all of claims [1,2], [3,4], [5], [6], [7-11], [12], [13,14] is claim 1.

However, the search has revealed that claim 1 is not novel since it is disclosed in a document 1(US 2003/0168707 A1(MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.), 2003.09.11, Fig.6A).

Consequently the common feature (claim 1) is not a special technical feature.

So, claims [1,2], [3,4], [5], [6], [7-11], [12], [13,14] do not satisfy the requirement of unity of invention.

The technical feature of "Multi-Reflection Attenuated Total Reflection Method" in claim 12 is a well-known technology. And the technical feature of claims 13,14 is disclosed in the document 1.

So, claims 12-14 are linked claims 1,2.

Therefore, there are 5 inventions in claims [1,2,12-14], [3,4], [5], [6], [7-11].